All the back part of this Child was covered with the Omentum; which was about two fingers thick, and stuck hard to divers parts of the Body of it, not to be separated without a Knife; which being done, very little blood This Infant weighed Eight pounds Haverdupoyse. The Skull was broken into feveral pieces. The Brain of the colour and confishence of Oyntment of Roses. Flesh red, where the Omentum stuck, other parts whitish, yellowish, and somewhat livid; except the Tongue, which had the natural softness and colour. All the inward Parts were discolour'd with a blackishness, except the Heart. which was red; and without any issuing blood.

The Forehead, Ears, Eyes and Nose, were cover'd with a Callous substance, as thick as the breadth of a finger: which being taken away, the parts appeared, as in the Fi-

gure.

The Gums being cur, the Teeth appeared in the adultness of those in grown persons. The Body had no bad swell though kept three days out of the Mothers Belly. The length of the Body from the Buttocks to the top of the Head, about 11 Inches. The Mother died about the Sixty fourth year of her Age.

An Account of some Books.

I. Johannis Wallisii, S. T. D. in Celeberr. Academia Oxoniensi Geometria Professoris Saviliani, Exercitationes Tres: 1. De Cometarum Distantiis investigandis. vionum & Fractionum Reductione. 3. De Periodo Juliana. Londini, 1678.

Oncerning the first, the Learned Author acquaints us, , in the beginning thereof, That about fifteen or fixteen years since, it was proposed to himself by that excellent Mathematician Sir Christopher Wren, as a thing of use,

*See Mr. Hooks Book, entituled, Lestures and Collections, or the Acgiven in these Transactions.

so. To find out the Distances of Comets from the Earth: and fince then, hath been by him, * otherwise than is here, performcount of it hereafter ed. To whom our Author then returned an Answer, se. This same, which upon our Worthy Countrey-man Mr. John Col-

lins his request, he hath here published.

The

The Probleme he fets down thus;

Expositis in eodem Plano, quatuor Rettis positione datu, quintam invenire, que ab expositis ita secetur, ut interjecta segmenta sint in ratione datâ. Whereof he

gives the folution at large.

The fecond Treatife is designed also chiefly for the use of Astronomers; who often enquire, the mutual proportion either of the Parts of some one Planetary Systeme, or of any two Systemes. As a so of the Distances and Magnitudes of Coelestial Bodies. Which to give in the least Numbers, and so as to avoid greater Fractions, is a performance of as great use, as delight, and altogether new.

The Probleme, the Solution whereof taketh up the greater

part of this Exercitation, is as follows, vid.

Exposità Fractione quavis (putà 26.84762) Fractionem invenire, que sit vel Exposite equalis, si sieri possit; vel saltem, que Expositam vel proxime superet, vel ab ea proxime desiciat, Denominatorem habens dato Numero non majorem: (putà, que numerum 999 non superet, seu tres locos non excedat:) sitque in Terminis minimis.

For the doing of which, he first lays down his Methodat large. Next, gives a summary of all the Rules. And then subjoyns several Examples in both the above specified Reductions.

To this he adds also, in the end, the way of sinding out of the Proportion of the Diametre of a Circle to the Circumference: proposed in his own words thus, vid.

Ratio Diametri ad Perimetrum Circuli vero minor, sed continuè crescens; seu Perimetri ad Diametrum vero major, sed continuè decrescens; donec intra assignatos terminos consistat.

The last Treatise containeth the Solution of this Probleme, vid.

Exposito Anno, qui sit, verbi gratia, in Cyclo Solari, Annus 22, Lunari, 14, Indictionum, 7: quaritur, quotus sit ille Annus Periodi Julianz. II. Martini Lister è Societate Regia, Londini, Historia Animalium Anglia tres Trattatus. Unus, de Araneis. Alter, de Cochleis tum Terrestribus, tum Fluviatilibus. Tertius, de Cochleis Marinis. Quibus adjectus est quartus, de Lapidibus ejusdem Insu'a ad Cochlearum quandam imaginem siguratis. Londini, apud J. Martyn Reg. Soc. Typogr. 1678.

He Learned Author, in his Preface, acquaints us, amongh other things, with the great care he took in
preparing his Observations for this Work. Principally
designing herein a most exact distribution of the kinds of
those Animals whereof he Treateth, into their several sorts.
To the end, that what ever Experiments or Observations
shall be made by others hereaster of these Animals, worthy
publishing, they may hereby be referred to their proper
places.

The first Iract containeth two Books. The former whereof treateth of Spiders in general. As a description of their several Parts, both outward and inward. Of their Generation. The Nature and Emission of their Thred. Casting their Cuticle. Of their Food. Venom. Several either false or dubious Traditions concerning them. Medicines made of them.

The Second Book containeth a distribution of Spiders into their several species, as followeth in the Authors own Table.

Scutulata Antiquis dicia; scil. universis maculis in eodem plane dispositis, in modum Scuti sive Orbita.

Conglobata; scil. maculis crebris in omnes in circuitu dimensiones procedentibus.

Telus linteoformes; scil. Reticulorum filis densè inter se contextis in modum Veli sive Panniculi.

Venatorii; qui aperto marte Mascus insectantur, chm tamen aliàs texere possunt; nimirum Telus ad Nidiscationem, orad hyberna.

Lupi, propriè sic dicii.

Cancriformes.

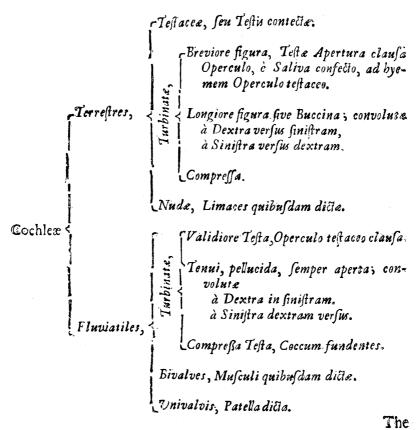
Phalangia, s. Aranci Pulices assultim ingredientes.

Binoculi, ferè longipedes, Opiliones quibusdam dicii, Telis digitatis sive forcipatis, Cancrornm more armati.

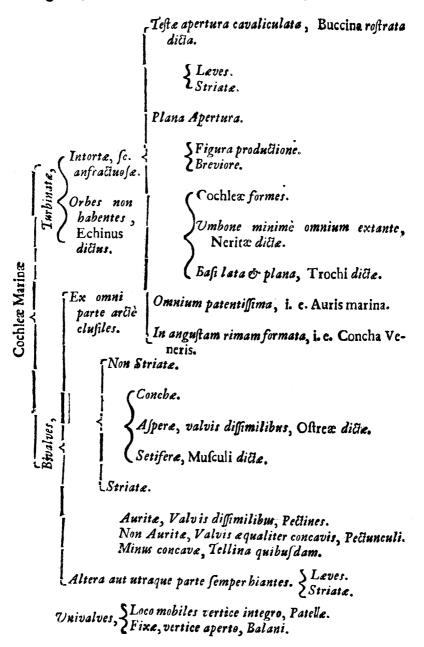
Under which, he hath also some other Subdivisions, made afterwards, in their several proper places. Of

Of all which he likewise exhibits the Figures, sets down the Descriptions, Place, Time of Laying, Manner of Coition. Describes their Eggs, Nests, Nets, Threds. Speaks of their Food and manner of Living, very high ascent into the Air, &c. The Work containing many curious Observations, not only out of our Country-man D. Mousset, and other Learned Authors, but of his own likewise, and such as are altogether new.

The Second Tract bath Three Parts. The first of Snails in general. As of their Shells, and other parts both outward and inward. Their Saliva, Eggs, Food, Use in Medicine. Diet, &c. The second of Land Snails. The third of River Snails. The several sorts whereof are figur'd, described, and comprized by the Author within the following Table.



The Third Tract is of Sea-Snails, which by the Author are figured, and distributed into the following Table.



The Iast Book de Gothlitis Anglia, presenteth the Figures and Descriptions of as many as are contained in this Table, vid.



The Author in his Preface to this last Book, inclines to their Opinion, who take not these figur'd Bodies for Petrified Shells, but to be bred like other Stones, in the Earth. For which he offers some Arguments either not, or less insisted on by others,

These three last Books are composed with the same accurateness as the former.

III. Lettures and Collettions made by Robert Hooke, Secretary of the R. Society. Printed for J. Martyn, Printer to

the R. Society, 1678.

He Work is divided by the Learned Author into two Parts. The first is called Cometa; containing, besides Observations of the Comets of 1664, 1665, and 1677, discourse also on Comets in general. As amongst other particulars, of the Head, Nucleus, and Blaze. That this is not always opposite to the Sun. Their Magnitude, Substance: thought, by the Author, loofe and confusible; as from the variation of the Magnetical direction, he supposeth that also of the inner parts of the Earth to be. Density, Mutability. Dissolution, Fluidity, Gravity, Light, Figure, Motion, whether bended or strait, with equal or unequal velocity, &c. A Digression of the method of Speculating the great and first Principles of the Universe. Theory of Comets, as to Parallax hitherto defective. What the World expects from Mr. Hevelius. Parallaxes arising from Hypotheses of the proper motions either of the Earth, or Comet, or both together considered, arise to a certainty of the Magnitude of Comets: others, depending on other suppositions, not. Allowing inequality of Motion, and more compounded Curve Lines. nothing can be determin'd. A gravitation towards the Sun. makes out the Motion of the Comet, and direction of the Blaze. Comets waste in the Ether, which is as a Menstruum to dissolve them. The way of enquiring Parallax by Telescopes further explain'd. A second way by too Observers at a distance propounded: A third way of Sr. Christ. Wren. his Majesties Surveyor General, set down and demonstrated by a Geometrical Probleme, an Invention altogether new. And how exactly all the Observations he had of the abovefaid Comets, were made out by it: together with his own Schemes. Communicated Febr. 1664.

Speaking of the nature of the Blaze, introduceth a Discourse of the Honourable Mr. Boyle, so. A Memorial of some Observations made upon an Artificial substance, in the possession of Mr. Crast a samous German Chymist, that shines without any precedent illustration. Wherein, amongst other particulars, is observed, that two spoonfuls of matter did enlighten a large Glass-sphere. Liquor shaken, had a smoke

and flash'd. A dry substance, affirm'd to have continued shining two years, flash'd. Seemed to partake of the odor of Sulphur and of Onions. It fired Gunpowder first warmed, And a While paper, held a considerable distance over Coals. To which are added some Experiments on the Phosphorus Baldmini in vacuo, and in the open Air.

To these are added Mr. Gallet's Apparatus for observing oin &, and his observations of 4 Spots in o; contained in a Letter to Mr. Cassini. Mr. Cassini's reflexions hereon. And his further discoveries about the motion of Jupiter upon its own Axis, and several new Appearances of that Planet. Together with Mr. Hally's Observat. of & sub o. Three Southern Stars never visible in England. And the 2 Nubecula, called by Saylors, the Magellanick Clouds; in a Letter to Sir

Fonas Moore.

The Second Part is called Microscopium. In which, two Letters from Mr. Lewenhoeck, containing further Observations of the little Animals, of several kinds, bred in Water, after the insusion of Pepper. Likewise of the Particles of Blood, Milk, Phlegm, Gums dissolved and precipitated. The manner how the same were also seen at the Meetings of the R. Suciety. As also how to find the figure and texture of Animal and vegetable parts. A description both of double and single Microscopes; and how they are to be used. Of the like little Animals (as above) bred upon steeping other Grains in Water, as well as Pepper.

Hereto is added a Relation of the Symptoms following the slipping of a Leaden bullet into the Wind-pipe of a certain person, and there sticking till his death, which hapned not before some years after. Together with what was observable in his Lungs upon Dissection; in a Letter from Mr. James

Young, an experienced Chirurgion in Plimouth.

To the whole Book are added Five Tables of Figures.

An Advertisement of the Monthly continuation of the Mechanick Exercises; by Mr. Joseph Moxon.

He Ingenious Author having begun and continued his three first Months Exercises on Smithery: in these

three next, he gives an account of Joynery.

In the first, a description of some Fools Then of Settingthe Iron. Of the Joynter. The Strike Block. The Smoothing Plain. Rabbet Plain. The Plow. Molding Plains. Grinding and Whet-